Harri K. Kytomaa, Ph.D.

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5	IN THE UNITED STATES DISTRICT C	OURT	
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7	Civil Action No. 3:06-0611		
8		x	
9	EMPLOYERS INSURANCE COMPANY OF WAUSAU,		
10	Plaintiff,		٠
11	v.		
12	MEDLINE INDUSTRIES, INC., and CREATIVE		
13	BEDDING TECHNOLOGIES, INC.,		
14	Defendants.		
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17	DEPOSITION OF HARRI K. KYTOMAA,	Ph.D.	
18	Thursday, October 4, 2007		÷
19	10:05 a.m. to 1:25 p.m.	· · · · ·	
20	Cornell & Gollub		
21	75 Federal Street		
22	Boston, Massachusetts	٠,	
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24	Reporter: Lisa A. Moreira, RDR	, CRR	
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		(BY: SANDRA LISER, ESQ.)	4	
	5	306 West 7th Street, Suite 200	5	
		Fort Worth, Texas 76102-4905	6	181A Photo 73
	7	817.332.1391	· 7	182A Photo 73
	8	Counsel for the Plaintiff	-8	183A Photo 73
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		312.645.7800	14	ACCUPATION OF COMMENT AND FOR COMMENT OF COM
	14			•
-	15	Counsel for the Defendant, Medline Industries, Inc.	15	
	16	NAMES OF THE PARTY	16	
-	17:	CREMER, KOPON, SHAUGHNESSY & SPINA, LLC	17	
l	18	(BY: GREGORY J. MCKENNA, ESQ.)	18	
-	19	180 N. LaSalle Street, Suite 3300	19	
	20	Chicago, Illinois 60601	20	* Original exhibits retained by Attorney Singer
	21	312.726.3800	21	
		Counsel for the Defendant, Creative Bedding	22	·
	23	Technologies, Inc.	23	,
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And the state of t	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	DEPONENT DIRECT CROSS REDIRECT RECROSS HARRI K. KYTOMAA, Ph.D. (By Ms. Liser) 5 (By Mr. Singer) 102 (By Mr. McKenna) 111 E X H I B I T S NO. DESCRIPTION PAGE 162A Affidavit 8 163A Notes of inspection in Georgia, 4/19/07 34 164A Draft Protocol For Mattress Testing 34 165A Notes of testing 41 166A Photo of innerspring array from burn test 55 167A Photo of innerspring array from burn test 55 168A Photo of another innerspring array 58 169A Photo of another innerspring mattress 64 171A Photo of Nylex II innerspring mattress 64 172A Photo 68 173A Photo 73 174A Photo 73 175A Photo 73	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	PROCEEDINGS MS. LISER: Before we begin, I wanted to put on the record our agreement with defendants, that this deposition is limited to the issues raised in defendant's motion for summary judgment, and that if, in fact, Dr. Kytomaa — did I say that right? THE WITNESS: Sure. MS. LISER: — is designated later as an expert in this lawsuit, that we would have the right to depose him, if necessary. MR. SINGER: So long as it's not duplicative of what we're covering today. Is that all right with you? MR. MCKENNA: Yes. HARRI K. KYTOMAA, Ph.D., a witness called on behalf of the Plaintiff, having been satisfactorily identified by the production of his driver's license and duly sworn by the Notary Public, was deposed and testified as follows: DIRECT EXAMINATION BY MS. LISER: Q. Would you please state your name for the record.

^{2 (}Pages 2 to 5)

Page 6 original comes back? K-y-t-o-m-a-a. :2 Q. Dr. Kytomaa, you have been hired by Medline MR. SINGER: Sure. 3 (Discussion off the record) and Creative Bedding Technologies in a lawsuit filed 3 (Document marked as Kytomaa Exhibit 162A by National Healthcare. Do you understand that? 4 5 for identification) 5 A. Yes. Q. And do you understand that I represent O. Dr. Kytomaa, I've handed you what's been 6 6 marked Exhibit 162A. Is that the affidavit you just National Healthcare? A. Yes. Just as a qualifier here, really I was referred to? 8 8 retained by the office of Attorney Jeff Singer. So 9 A. Yes. for my purposes, although it's a subtle distinction, O. Who prepared that affidavit? 10 A. I prepared -- these are my words, and the I deal directly with Jeff Singer and his office 11 11 person who did the typing was Brian Eldridge. rather than the corporate entities you mentioned. 12 12 MR. SINGER: And did you say that you Q. I noticed that about midway through that 13 13 affidavit there's a section where there's a bunch of 14 represent National Healthcare? 14 asterisks where something was left out and something 15 MS. LISER: Well, National Healthcare 15 was added in. 16 and the insurance company, yes. 16 MR. SINGER: Well, I thought you A. Is that right? 17 17 MR. McKENNA: Object to the form. represented the insurance company and the beneficial 18 18 MR. SINGER: Yes, I object to the form interest of National Healthcare. 19 19 MS. LISER: Sure. If you want to 20 of that. 20 A. I don't know of anything being left out. 21 clarify that on the record, go ahead. 21 MR. SINGER: That's fine. I just think 22 O. In Paragraph 17 --22 the record should be clear so Dr. Kytomaa is aware 23 A. Yes. 23 O. - there are three asterisks, then you begin of that, too, because it's really not part of his 24 24 involvement in this case as to who you represent or 25 with Paragraph 18, and then there are three more 25 Page 7 who I represent or who Mr. McKenna represents, but 2 those are for?

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2 iust in his role as a --MS. LISER: Normally I introduce myself

to the witness. I apologize if that bothers you. O. And Dr. Kytomaa, do you understand that your

deposition today is limited to issues of the identity of the mattress involved in a fire at National Healthcare in Nashville, Tennessee?

A. Generally speaking, that's correct, yes.

Q. Can you just briefly tell me what work 11 you've done that's helped you form any opinions on identifying the mattress involved in the fire so I can know what areas to question you on.

A. Sure. Probably the best way to summarize my -- the area of my work is what appeared in my affidavit.

O. Okay.

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A. And the summary of my work is that I've performed a number of inspections and tests, and I have also reviewed Mr. Hollman's deposition, based on which I formed certain hypotheses, and I've tested my hypotheses through my inspections and testing.

MS. LISER: Jeff, is it all right if we mark things out of this notebook as long as the asterisks after Paragraph 27. Do you know what

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A. Other than editorial beautification, I don't know.

Q. Okay. When you say they're your words, what do vou mean?

A. What I mean by that is that the -- I had long discussions with Brian Eldridge in creating this document, but I didn't personally type the document; he typed it. We discussed wording, and essentially I instructed him as to what the wording should be like.

Q. Did you dictate the affidavit, or merely talk to Mr. Eldridge about your opinions and then he'd type it up from that conversation?

A. Some parts may have been, let's say, dictated in the sense that we were on the phone and he was writing down what I was saying, and some parts were back and forth.

Q. Were there then rewrites and edits of this 20 affidavit between you and Mr. Eldridge? 21

A. There were. Essentially it was a document 22 that evolved over some period of time. 23

Q. Do you have any of the draft affidavits? 24

A. No.

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A. There are none. We don't -- as a matter of practice, I don't keep any such, let's say, evolutionary stages of any document. The final document is the document.

Q. Okay. Did Mr. Eldridge actually send you drafts of what he prepared to make sure you were 7 happy with the language? 8

A. He may have, yes.

Q. And are those e-mails retained on your 11 computer system?

A. No. I wouldn't -- I would specifically not .12 keep any exchanges of documents that I know are not 13 14

O. So is it your personal practice or Exponent's 15 practice that documents -- drafts of reports or 16 affidavits get deleted? 17

A. Both.

O. And the correspondence between you and Mr. 19 Eldridge, the actual e-mail itself, are those 20 21

A. To the extent that there is correspondence 22 that contains a document that is not in its final 23 24 form, yes, that would be deleted, too. But to the extent that we have exchanges that don't involve 25

Q. You wouldn't expect it, but you don't know? 1

A. Well, put it this way, it's certainly not my 2 3 practice, and I don't believe it is Brian Eldridge's practice either.

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Q. To put substantive information in an e-mail?

A. Other than an attachment, which is the document that we are developing.

O. Okay. What about the other communications you've had with Mr. Eldridge or his law firm? Have any of those been via e-mall?

A. Yes.

Q. And are those e-mails destroyed, or do you keep those?

A. I typically would keep those.

Q. Even if they're just transmittal e-mails?

16 A. If they're transmittal e-mails or things of that nature, I would not necessarily, let's say, delete them. 18

I'm sorry, let me be very clear.

Q. Okay.

A. If it's a transmittal or, for example, a schedule of when we might meet, okay, something that is factually accurate and not an evolving document, I may well keep that. If it's a transmittal of a

document that is not in its final form, I would not

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documents that are not in their final form, I would typically keep those.

Q. So if any of the e-mails between you and Mr. 4 Eldridge actually contained discussions about your opinions and what should be put in the affidavit, you're going to delete that e-mail because the affidavit is not finalized yet?

A. Yes. If it's -- if we are talking about issues that are sort of evolutionary in character, I would not keep that, because I know that that is not representative of what my final opinions will be and so forth.

Q. Do you know whether or not any of the e-mails you exchanged with Mr. Eldridge concerning your affidavit contain any substantive discussions in the e-mail body itself?

A. I would not really expect that to occur.

Q. But you don't know if it did or didn't?

18 A. The only, let's say, substance that may be 19 associated with such e-mails would be a possible 20 attachment of a sort of a version of the report as 21 22 it's being developed.

23 O. And so the e-mail body itself is not going 24 to discuss the report?

25 A: I would not expect so. keep that.

Q. Of the paragraphs in your affidavit, can you tell me which of the 40 paragraphs were written by you and which ones were written by Mr. Eldridge?

A. Well, all of these are in substance written by me, but the physical typing was done by Mr. Eldridge for all of them.

Q. Can you tell the court and jury what revisions Mr. Eldridge asked you to make to any portion of the affidavit?

A. Well, he didn't ask me to make; it was really me asking him to make. So essentially the way this went was Mr. Eldridge indicated that an affidavit was necessary, and then we went about developing this first based on a very long discussion or, let's say, multiple discussions, and

he would essentially try to represent my opinions on 17

18 paper, and then I would, you know, essentially

19 correct them until I was satisfied that they were 20 representative of my opinions.

Q. Do you know about how long this process took 22 from the first conversation about the affidavit to 23 it being completed?

A. I don't really recall, but it probably would have been something like on the order of maybe two

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to three weeks, something like that. Maybe a little less. I don't have an accurate, let's say, timing 2 3

Q. Do you have any other written reports or statements that you have made involving the identification of the mattress involved in this

A. None other than what's in front of you here.

O. And that's these two notebooks?

A. Yes.

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Q. When were you first retained by Medline or Creative -- excuse me, by Mr. Singer's law firm?

A. Let me see. I have a document that reflects the date in one of my binders.

So we were first retained in March of 2007.

Q. Was the scope of your retention in March of 2007 limited to the identification of the mattress, 18 or was it a broader scope?

A. The scope of the retention actually, in my understanding, has not changed throughout this matter, and it was pretty much defined to the scope of my affidavit.

Q. So if your affidavit does not deal with, for 25 example, the combustibility of the mattress or its A. I'm not sure I understand your question.

Q. I'm actually just trying to find out if 2 you've been retained to offer any opinions on whether any of the Nylex II mattresses meet any of the flammability characteristics or standards such as California TB 129 or California TB 603 or any of 6 7 those?

A. I was not asked to address the issue as to whether these mattresses in question meet any of the standards you identified.

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O. Okay. Thank you. And thank you for making 12 sure I get a good question.

When you were first retained by Mr. Singer's law firm, were you given the issue of whether or not the mattress involved in this fire was a Nylex II innerspring mattress, or was that an issue that you raised from your investigation?

A. I think both. That is, this was presented to me, but as a matter of practice I -- you know, 19 these are the types of things that I would seek to confirm independently, which I did, and so yes.

Q. Let me back up a question. If I understand, then, all of the work that you have done since you were retained in March of 2007 to today has involved, to some extent, the identity of the

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flammability characteristics, the scope of your retention doesn't include those items either; is that right?

4 A. Well, let me just answer specifically. I was not asked to look at the combustibility of some 5 materials, but I was asked to look at the combustibility of other materials. So in the case of the mattress, to make -- that's a difficult question to answer just as you asked it.

Q. And I agree with you completely now that you point out components as to the entire finished 12 mattress.

The scope, to your understanding, from the moment you've been retained by Mr. Singer's law 14 firm to the present day, is limited to the issues 15 addressed in your affidavit; is that right?

A. Yes.

Q. And if your affidavit does not address the 18 flammability characteristics of the completed entire 19 mattress, then the scope of your retention doesn't 20 cover that either; is that right? 21

22 A. I'm not sure ---

Q. Badly worded question again?

24 A. Yes.

25 Q. I'm sorry. mattress involved in the fire at NHC?

A. Yes, and then related questions associated with the identity, yes.

Q. What do you mean by "related questions associated with the identity"?

A. Well, for example, you know, if it -- well, let me be specific.

If it were a Nylex II innersprung mattress, how would it behave in a fire? And if it were a Nylex or, let's say, a foam mattress without innersprings, how would it behave in the fire? That's what I mean by "related questions."

Q. Okay. Any other related questions you have worked to answer?

A. There may be, but none that I recall right now. My suggestion is as those arise, I'd be happy to point them out, you know, in the context of guestions that you ask.

Q. It's probably more efficient that way anyway.

What was the first activity you undertook to try to determine the identity of the mattress involved in this fire?

A. The first activity. You know, I don't 24 really remember exactly. What I can do is tell you

5 (Pages 14 to 17)

specifically about my inspections and testing because I have dates for those.

Q. Okav.

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A. As to exactly, you know, what I read and so forth, it's difficult for me to recall when I did what, so probably the easiest thing is to tell you the dates which I have here, the dates of my various inspections.

So I was retained in March of 2007, and then in May -- actually, in April I performed the 10 inspection in Marietta, which I believe you were 11 12 present also.

Q. That's correct.

A. April 19th. Then in May I performed tests of mattresses, burn tests of mattresses, and then in June I performed a second inspection in Nashville, Tennessee.

O. What was significant, if anything, from your 18 inspection in Georgia in April of 2007 toward your 19 opinions on the identification of the mattress? 20 21

A. Toward the identification of the mattress, 22 the significance there was the absence of the 23 innerspring array in the materials that we looked at. But in addition to that, I also wanted to 25

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were in Georgia in April of 2007, you were already devising the test protocol to do the mattress burn 2 3. test? 4

A. Well, your memory is perhaps keener than mine. I don't recall the exact timing of, you know, when I was doing that. I really honestly don't.

Q. Well, you just mentioned that one of the things that was significant about the configuration of the bed frame itself is that you wanted to make sure you were using a bed frame that was similar in your test.

A. Right.

Q. Which made it sound like you were already considering the test.

A. Oh, I see what you mean. My normal practice is to -- and I think in answer to your question, there's really two elements.

One is my normal practice of documentation in inspections, where I try to document everything that may be relevant without necessarily knowing exactly why it may be relevant to at that time, but trying to think broadly in that way.

And the second aspect of it is that I then used the information that I associated with the

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understand the general configuration of the hospital bed in question, which I documented and measured and

Q. What was significant about the configuration of the hospital bed on which the mattress was

A. A number of things. First, from the photographs themselves, the absence of springs that would have been associated with an innersprung mattress, that's the first thing.

And the second thing really related to tests that I wanted to do and to understand essentially what the geometry of the hospital bed was so that if I were to perform tests, it would be testing on a bed, a hospital bed, that is sufficiently similar.

O. Were you involved in any way in the initial investigation of this fire and the gathering of the evidence?

A. I was not.

Q. Do you know if your employer, Exponent, was?

A. What I know is that Exponent at some stage 22 was involved. I don't know the nature of the scope 23 of our prior involvement. 24

Q. If I understood what you told me when you

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documentation of that Marietta inspection later in 2 devising the protocol for tests.

So as to whether that's what I was thinking at the time, I really don't know or recall 4 that, but I did use this information in that manner at some later time.

Q. Have you discussed with anyone the steps that were taken in the evidence-gathering initially after the fire to make sure that all relevant evidence was gathered, maintained, and documented?

A. I certainly had discussions with Brian Eldridge and maybe with Attorney Singer regarding what the collection of materials or evidence is that exists in this case, but as to your question as to how, I'm not sure I've had such discussions.

Q. If I understand your affidavit, you base your opinion in large part upon the absence of bedsprings in the remnants of the mattress that was involved in the fire; is that correct?

A. Yes.

Q. And do you base the opinion that there were 21 no bedsprings solely upon the photograph you 22 reference of Ms. Tolston's remains in that bed? 23

A. No. I mean, I base it on a number of things; Mr. Hollman's testimony, the photograph that

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there are no bedsprings, the fact that no bedsprings were collected into any of the bodies of evidence, if you can call them that, in Marietta or Nashville, Tennessee. So there's -- and the fact that if there had been bedsprings in a mattress that went through these fires, the bedsprings would have survived.

So there are a number of things that I'd say I base that opinion on.

- O. Let me make sure I've got the number complete. The testimony of Bob Hollman, an employee of NHC, correct?
- A. Yes.
- O. The photographs of Ms. Tolston in the bed?
- 14 A. Yes.

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- O. And then the gathering of evidence, and the fact that you've looked at evidence in Nashville and in Marietta, Georgia, and there are no bedsprings?
- A. Yes. I've looked through all of the materials that could have contained bedsprings and there are no bedsprings.
- Q. Okay. Does anything else compile that number of things that support your opinion that 22 there were no bedsprings?
- A. And also my testing that indicates that --25 that is, I think, testing, personal experience,

me is that Mr. Hollman testifies to the fact that the mattresses, the Medline mattresses, were all 2 innersprung mattresses, okay? So there's 3 essentially information associated with what kind of 4 Medline mattresses he had purchased and knew about. 5

O. Right.

A. That's one piece of information. And the second piece of information is everything to do with, you know, what was kept after the fire, what did we see after the fire was put out and so forth,

So there are really two types of information in the list of things that you mentioned in your question that have a different type of meaning in the context of my investigation.

Q. And I guess what I'm trying to understand is, from the information that we've been provided -and I believe Mr. Singer and Mr. Eldridge have, too -- the Nashville Fire Department destroyed the fire scene within five or six hours, gathered up all the evidence, placed it in piles, and the remnants of the mattress were taken by some investigator to his home in a garage and was kept until it was released. And I'm trying to find out if you know any of those

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Page 23 knowledge, and training that goes to the opinion that I would not expect bedsprings to be destroyed in the fire.

Q. And I probably haven't had enough coffee, so I was asking a bad question.

It's your opinion that there were no bedsprings in the mattress that Ms. Tolston was resting on at the time of the fire, right? And that's really all I'm looking at. What supports that opinion, that the mattress she was on had no bedsprings?

A. You lost me.

Q. Sure. Well, let me - it's my understanding that you believe that the mattress Ms. Tolston was resting on did not have any innerspring component because you see no evidence of an innerspring component; is that right?

A. After the fire, that's correct.

- Q. Okay. And the evidence that supports your opinion that there was no innerspring in the 20 mattress being used by Ms. Tolston is the pictures of her, Mr. Holiman's testimony, and the fact that you've looked at the evidence that's been gathered and stored and you found no burned innerspring unit?
 - A: So the thing that confuses your question for

A. I have not -- in fact, those facts I'm not aware of, and I have not, let's say, studied the background associated with that kind of information.

MR, SINGER: And I have to offer an objection to the form of the question, because there's no evidence as yet in this case that supports the hypothetical that Ms. Liser has provided on the record.

MR. McKENNA: I join in that objection,

MS. LISER: You know, guys, if you want, I don't mind saying that one objection is good for both of you so you don't have to --

MR. McKENNA: Thank you.

Q. If, in fact, that was true, and the evidence was not well-preserved, well-gathered, welldocumented, would that limit the reliability of the fact that today or in 2007 there are no innerspring bed units for you to look at in any of the two places evidence is stored?

MR. SINGER: Object to the form of the auestion.

A. I don't think so.

Q. Okay. You mean whether the evidence was 24 gathered correctly and documented correctly and not 25

7 (Pages 22 to 25)

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destroyed immediately after the fire would not affect how much reliance you could place on what you see today in 2007?

MR. SINGER: Same objection.

A. I think -- I mean, your question is a very general one, so it's very difficult to answer a general question of that character. And I think generally, you know, yes, there may be problems, but if we look specifically now at the evidence -- for example, the fact that when Mrs. Tolston was on the bed, photographs were taken at that time before, let's say, clearing of evidence and the such.

Q. Okay.

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A. And those photographs speak for themselves.

And if then, let's say, after those photographs were taken, say things were done in such a manner as to possibly not keep all of the evidence or things of the kind that you spoke of in your question, that would not influence the significance of the photographs themselves.

Q. That's actually a much better made point
than I was trying to make -- than I was doing,
Doctor. Really the only thing that we have that is
not subject to either interpretation or spoliation
that tells us that there wasn't an innerspring unit

A. Well, I mean, I've not taken it into
consideration other than having looked through all
of the materials that were kept as evidence, and
I've also reviewed the photographs that were taken
by the bomb and arson squad. And in light of the
scope of my work, I'm not sure that that's directly
relevant at this time.

Q. Aren't you making a presumption, Doctor, that all of the relevant evidence was kept and made available for you to examine in 2007?

A. So the presumption I'm making is that I've looked at all of the evidence that's available, and I didn't see innersprings in those materials, and I've looked at the bomb and arson squad photographs, and I see no innersprings, you know, of an array that's actually substantive in the sense that you wouldn't really miss it.

So I don't -- you know, in light of the types of materials that were kept as evidence, it seems to me that that would have been kept, had it been there, and it would also have been obvious in the photographs. Okay?

So all the information that I have right now speaks to me with respect to the innerspring specifically, that they're not there. They're not

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in this mattress were the pictures of Ms. Tolston when she's still on the bed?

MR. SINGER: Well, I'll object to that.

I believe it's argumentative. Object to the form of the question, but you can answer.

A. Based on the information I have, I don't think you are right.

O. And why not?

A. I have no information that suggests that there was improper handling of evidence.

Q. And if there was improper handling, then that would raise some doubt about the evidence we see today. You just don't know if that happened or not.

A. Well, I don't know whether that's the case either, because we'd have to take this hypothetical handling of evidence that you talk about in the context of what is not so hypothetical, and then essentially make an interpretation as to whether it has any influence on final opinions.

Q. You would, of course, Doctor, have to take into consideration to some extent, even limited, how the evidence was handled between the time it was gathered and the time you saw it a number of years later. Page 29 in the photographs. I don't think they were there, and I don't think that improper handling of some other evidence impacts the innersprings at this time based on the information that I have.

Q. Surely mishandling of the remains of the mattress would have some relevance to what was left of the mattress, correct, if that occurred?

A. Not necessarily, because actually a significant component of my opinions here really rest on the least flammable component of the innersprung mattress, namely the innerspring array, all right? So if, let's say, ticking or foam components did remain, and if they were, let's say, mishandled, as you say, for which I don't have independent confirmation, that would not influence my opinions. I didn't really look at those types—those components of the mattress, and I didn't attempt to look at those components of the mattress.

Q. I just want to make sure I understand, Doctor. I know we have the photographs. And I know there may be disputes over what the photographs show or don't show, but we have the photographs.

But as far as the fact that you have looked at evidence being kept in Nashville and evidence being kept in Georgia, you are presuming

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1 that if there were bedsprings as part of this 2 mattress, that those would have been kept and made 3 available at one of those two locations in order to reach your opinion that the absence of any bedspring unit means that there were no bedsprings in the 5 mattress: isn't that correct? 6

A. Well, not really, because I've reviewed many photographs.

Q. We're taking the photographs out.

A. Right.

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Q. I'm just asking -- just on the absence of 11 bedsprings being made available at one of those two 12 locations, you're presuming that had they been in 13 Ms. Toiston's mattress, they would have been kept 14 15 and stored?

A. Right. See, from a technical standpoint, I can't make that leap. I can't now suddenly not look at the photographs because it's really integral to my investigation on this issue, right? So I can't now -- I'll say I can't answer that question, and I can only answer it in the context of what I've seen through photographs because I've spent a lot of time looking at photographs.

MR. SINGER: Can I just ask for the record, when you're talking about photographs, we're

Page 32 A. Based on what was kept, that's correct.

Q. Okay.

A. Yes.

Q. Was there anything else that you learned in your investigation or examination of the evidence in Georgia in April of 2007 that has supported your opinions about the identity of the mattress being used by Ms. Tolston?

MR. SINGER: I just want to offer an objection. I don't believe his testimony is that he's going to opine what mattress was on Ms. Tolston's bed, I believe what his testimony's been so far and what's in the affidavit is that he can offer opinions that an innerspring coil Nylex II mattress was not on that bed.

So maybe that's a semantic distinction, but I object to the form of the question because I think you're misstating what his opinions are.

MS. LISER: Let's figure out how we want to call it, because if I use that -- we'll be here for two days if I have to say that every time I ask a question about the identity of the mattress.

MR. SINGER: That's fair. I just want the record to be clear that I think you may be inadvertently misstating the opinions he has formed

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talking about bomb and arson? 1

MS, LISER: That's what he's talking

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4 MR. SINGER: I'm not sure if anyone reading the transcript will know exactly what photographs are being referred to now. That's why I bring that up. Thank you.

Q. Surely you'll admit, Doctor, that it is possible that someone threw away an innerspring bed unit before it was provided to any of the attorneys or the investigators to keep?

A. Based on the information that I've reviewed, I would say no.

Q. That it's impossible?

A. Yes, because it is a huge piece of evidence. 15 A lot of stuff that was kept was much smaller than 16 this. This is an enormous thing that almost is the 17 size of an entire mattress. 18

Q. Okay.

A. So I cannot imagine, based on what I've 20 reviewed so far, that that would have been done. I 21 iust can't imagine it. 22

O. Okay. So your testimony is that it is 23 impossible that someone would have discarded that or 24 25 not kept it?

Page 33

in this case which are set out in his affidavit. So why don't you reask your question.

MS. LISER: Yes, let me try again. I understand your point. I'm trying to be a little shorthand so we can all catch planes and go home.

O. If I understand from what Mr. Singer said, your opinion is going to be limited to the fact that the mattress being used by Ms. Tolston at the time of the fire did not include an innerspring unit; is that correct?

A. That's correct.

Q. Are you offering any opinions about the identity of the mattress that Ms. Tolston was using other than it didn't have an innerspring unit?

A. No.

Q. Can, then, we have an agreement that when I ask you about opinions on the identity of the mattress, that I'll try to be better, but what we are talking about is your opinion that the mattress being used by Ms. Tolston did not have an innerspring unit? Do you want me to try that one again?

A. No, I agree with that.

24 O. Okay.

(Recess taken) ·

9 (Pages 30 to 33)

Page 36 follow the protocol set out in California Technical 2 Bulletin 603 in its entirety? A. Right. I mean, two things essentially. 3 There was no reason to follow that standard or any other standard; and the second reason really is that the purpose of these tests was to determine how 6. innersprung mattresses and noninnersprung mattresses 7 would look after the mattress had burned, which is a scope that is significantly different than Technical 9 Bulletin 603's scope. 10 Q. And for the Jury, what is the scope of 11 12 Technical Bulletin 603? A. Well, it's really a test associated with the 13 flammability of mattresses that primarily looks at 14 the heat release rate; that is, you know, how the 15 16 fire grows and spreads. 17 Q. Did you keep data of the heat release rate during the testing that you did in May of 2007? 18 A. Not only did I not, let's say, keep notes of 19 it, I didn't measure it, because it wasn't the 20

purpose of the testing that I undertook. O. The lab at which you did the testing, did they run their normal test protocol and keep records of what the heat release rate was throughout that test or throughout those tests?

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Q. What protocol did you ultimately use? Your affidavit references both TB 603 and CFR 1633.

A. Yes. I'm not sure I understand your auestion.

Q. Sure. Did you use -- did you follow a testing protocol that is set in one of the fullscale fire tests for mattresses, like TB 603?

A. The test protocol that I used is what's spelled out in my affidavit as well as this, being the document entitled "Draft Protocol For Mattress Testing," okay? So the only component of TB 603 is as is spelled out in the draft protocol, which is Exhibit 164A in Sections 5, 7, and 9. All of those speak to the fact that we used a TB 603 burner.

So really it's in reference to a component that was used -- sort of let's say a 16 component that was used to ignite the mattress. And 17 17 so when you -- in your question, when you 18 essentially imply that we followed a standard, we 19 didn't really follow a standard of testing, we 20 followed the draft protocol that we have here, which 21 is Exhibit 164A, but we then elected to use the 22 burner that is used in TB 603 as a means of a 23 condition of the mattress.

25 Q. Was there a reason why you decided not to

A. The lab that I used to perform these tests did the tests in accordance with the protocol that I provided to them, so they did what Exhibit 164A says.

O. So I'm not sure I made my question clear. No matter what your protocol says, did the lab keep records of the heat release rate of the mattresses during the four tests you ran?

A. I'm not sure I understand your question fully.

Q. Sure. I know that your protocol doesn't require it, but did the lab keep it anyway, or did they obtain that data during the tests?

A. So you're suggesting that the lab might have done things other than what I asked them to do in the protocol, I suppose, right?

O. Gather data during a test, yes.

A. So no, the lab did only what I asked them to do. They didn't go and do things -- we were actually -- Attorney Singer's office was essentially paying for the tests, so we only -- I wrote the protocol for my purposes, and the way these labs work is, they will charge you for what they do for you, so they tend not to do extra things that they will then charge you for.

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1 O. Okay.

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A. And if you're not paying for them, they won't do them. So they did what we asked them to do, and that's it.

Q. All right. So you can affirmatively state that if I contact the lab down in Texas, they are not going to have data showing what the heat release rate was during the four tests that you ran?

A. That's correct.

Q. Other than the fact that it would have cost 10 Medline additional money to obtain -- excuse me, Mr. 11 12

Singer's firm to collect that data, was there any other reason why you didn't collect the rate of heat 13

14 release during these tests?

A. Well, let me just say that the preface of your question there is actually a misrepresentation of what I said --

O. I apologize.

A. -- in the sense that this is not a money question. The money issue that I pointed out is that labs don't voluntarily do things that you don't ask them to do. That was the point I was trying to make.

And so, I'm sorry, what was the 24 25 question?

Page 39 Q. Certainly. Why didn't you ask the lab to record the data of the rate of heat release

throughout the four tests you ran? 3

4 A. Because that wasn't -- for the purpose of my testing, I had no need for that information. Again, the purpose of my testing was to determine what an innersprung mattress looks like after it has burned and what a foam mattress without an innerspring array looks like after it has burned. So neither of those questions have anything to do with the heat release rate, so that would have been somewhat irrelevant to my testing, if you will.

Q. Was that data that could have been gathered during the test if you wanted it done?

A. Oh, absolutely. I mean, I think that, you know, there are a lot -- in fact, this lab in particular will do many things that they're capable of doing if you want it done. But we don't randomly ask them to do things; we ask them to do specifically what we need.

Q. Have you used this lab before for full-scale 21 22 fire tests?

A. Personally in projects that I've directly. 23 been involved with, no; but generally speaking, yes. That is, Exponent has used Inter-Tek, and

specifically this lab, for some other things.

Q. And do you know if when Exponent has used 2 Inter-Tek in the past for full-scale fire tests,

whether they have collected the rate of heat release data during the test? 5

MR. SINGER: Let me offer an objection 6 to the form of the question, because he has not testified that they've done full-scale fire tests for Exponent.

MS. LISER: I'm sorry, I thought he said 10 his company had used Inter-Tek for those kind of 11 12 tests. I apologize.

A. What I said was that I had not used them, and Exponent had used them for some other things. The reason why I left it so vague is that I don't know what those other things are other than, yes, we 17 have used that lab.

So I don't know that we have used Inter-19 Tek for what you call full-scale tests, which is a 20 concept that I think could mean different things to different people.

22 Q. Okay. Any other reason why you didn't gather the rate of heat release of the four burning 23 24 mattresses?

MR. SINGER: Objection, asked and

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answered. If you have any additional reasons to provide her, that's fine. 2

A. I think the answer is, I have no reason to measure it. It's difficult for me to answer the question the way you put it. I had no reasons to do

Q. Did you collect any data during the tests that you performed at Inter-Tek other than photographic or videographic data?

A. Yes.

Q. What data did you report?

A. They're essentially the materials that I've 12 provided here today, so my notes of the testing, 13 14 yes.

> (Document marked as Kytomaa Exhibit 165A) for identification)

Q. Is Exhibit 165A your notes of the testing?

A. Yes.

Q. Okay. And I didn't see any other data other than photographs in your notebooks that you obtained from the testing, so I may have to hand it to you to

22 let you tell me what else might be there.

A. That's all there is.

Q. If I then understand correctly, you do not 25 have data from these tests to offer any opinions on

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whether any of these mattresses complied with TB 603 or CFR 1633; is that right?

A. Right. I didn't attempt to make that determination, nor do I have data for that, such a determination.

Q. Okay. And so if, in fact, you were ever asked at a later date to render opinions on which combustibility standards these mattresses met or didn't meet, you'd have to do new tests?

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A. Well, you'd have to do something that meets -- addresses that question, right, which is not what I set out to do in May of 2007.

*O. It's my understanding -- and my understanding could be wrong -- that California TB 603 utilizes standard bed clothes like Boston IX-11; is that right?

MR. SINGER: I'm going to offer an objection here. I thought the scope of this 18 deposition was going to be limited to the activity he performed with respect to the product identification issue. You are asking him questions about technical bulletins, compliance and standards, so I don't know where we're going here.

MS. LISER: Give me two questions, and if you don't think I've gone anywhere, fine.

saying, but it has nothing to do with the product 2 identification issue at all.

MS. LISER: Okay. Well, then I'm just going to ask him the questions, and you can instruct him not to answer.

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MR. SINGER: I'm not going to instruct him not to answer because I don't think that's ethically appropriate in this circumstance, but we can always call the judge if there's going to be a lot of questions according to issues that the parties agreed before this deposition were not going to be asked and he's not prepared to address.

MS. LISER: Well, I don't think that finding whether or not his test protocol replicated what was going on in Ms. Tolston's room is: irrelevant, because if your fire tests that showed springs survived does not represent what happened to Ms. Tolston, then it's not relevant to whether Ms. Tolston's springs would have survived.

MR. SINGER: So if I understand what 21 you're saying, it's because Ms. Tolston was wearing bed clothes -- was wearing pajamas and there was bedding of some sort on the mattress that this would 24 have an impact, pursuant to a reasonable degree of engineering certainty, on whether the steel coils

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MR. SINGER: I talked to Grant about this -- we've had an e-mail exchange -- and I don't want to go into technical bulletins and standards. That's not the purpose of this deposition today.

MS, LISER: That's fine. The next question would make sense, and we'll just skip the follow-up.

O. So you don't need to answer that question, Doctor.

Do you agree with me, Doctor, that bed clothes during a mattress fire test add to the fuel load?

MR. SINGER: Again, same objection. MS. LISER: Look, she had bed clothes on her mattress, and you tested mattresses without bed clothes, and bed clothes add to the fuel load.

That's relevant.

MR. SINGER: But this relates to product identification, whether there was innerspring coil or not.

MS. LISER: Right, and if there's a higher fuel load, then there's going to be a hotter fire and more heat released in Ms. Tolston's room, and I think that's very relevant.

MR. SINGER: I understand what you're

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would remain? MS. LISER: I think I'm entitled to ask the engineer that and not you.

MR. SINGER: Why don't you ask him that question. I think that's a fair question for you to ask him.

MS. LISER: Okay.

Q. Sorry, Dr. Kytomaa. Do you agree that bedding on a bed adds to the fuel load?

A. Yes.

Q. And you agree that the furnishings in the room can add to the fire load and can increase the intensity of the fire?

MR. SINGER: That's totally different. MS, LISER: All right, We'll just follow up that.

Q. So additional fuel load can increase the intensity of the fire; is that correct?

A. Generally speaking, yes.

O. All right. And do you have any reason to think Ms. Tolston was on a bed with no sheets, mattresses or -- I mean, sheets, blankets or 22 . pillows?

A. I would expect that there might have been 25 sheets, blankets or pillows or one of those on her

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- 2 O. The tests that you ran at Inter-Tek did not have any bed clothes on the mattress; is that
 - A. We didn't have any bed clothes on the bed, but we used a burner that is designed to mimic the presence of the bed clothes.
 - Q. In what way? I mean, how does the burner do
 - A. The burner is actually specifically designed to mimic ignition of bed clothes, yes.
 - Q. The 603 burner?
 - A. Yes, that's correct.
 - O. What effect, if any, would it have on the fuel load on your test to not have bed clothes?
 - A. Well, the tests that I performed used a propane burner, so essentially you're introducing propane that wasn't, if you will, in the fire room for the purpose of essentially mimicking the behavior of bed clothes in the early stages of ignition. So on the one hand you're adding fuel, and on the other hand you're taking away in the sense that there were no sheets and blankets or pillows on the tests that I performed.
 - O. Did you allow the tests to go to flashover

fire in Ms. Tolston's room reached flashover, that would have been a condition in her room that wasn't 2

present in the tests you ran at Inter-Tek?

A. Right. I mean, I don't know -- I haven't addressed the question as to whether the room reached flashover, but certainly in the Inter-Tek tests we did not reach flashover of the compartment fire.

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Q. And can the presence of other combustibles in the compartment where the fire is taking place increase the intensity of the fire in the mattress?

MR. SINGER: That's been asked and answered. I object.

A. I mean, it really depends. There are situations, for example, where if something else is burning and the smoke layer travels downwards sufficiently quickly, that it can essentially put out a fire. So it depends on the degree of ventilation of the fire, and it depends on the degree of, let's say, fuels that can be ignited or the amount of fuels that can be ignited. And so it's not -- without any further, let's say, qualification or clarification, I don't think I can answer that question.

Q. Let me see if I can give you a better

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at Inter-Tek?

A. The tests that I performed did not cause

4 Q. Do you know whether or not, from your review of the fire marshal reports, the fire in Ms. Tolston's room reached flashover? 6

A. I did not review the fire reports in this case, and that really wasn't part of my scope. And so I don't know specifically whether the room flashed over or not, or I haven't really attempted to address that question.

Q. What does it mean to go to flashover, so 12 13 I'll know that you and I are speaking on the same 14 page?

A. All right. So terminology of "going to flashover" is typically associated with a condition where the fire has progressed sufficiently that a hot zone of hot gases and soot are formed in the upper regions of the compartment in question, the room in question, the fire room, that then radiate 21 heat downwards to other combustible materials, such 21 22 as furniture and carpets and other furnishings, that

then essentially ignite relatively quickly, burning 23 24 most of the combustibles in the room.

Q. So if Ms. Tolston's room -- or I'll say the

question then. 1

> If Ms. Tolston's room contained flammable furniture, flammable draperies, curtains around her bed, that type of item, could those types of items add to the fuel load enough to cause the fire in a mattress to be of greater intensity?

A. So like I said, it depends a great deal on the availability of air, so ventilation of the fire. So in some situations it could. In other situations, maybe not.

Q. If, in fact, the door to the room was open or the window was broken so that there was availability of oxygen, would that help you answer that question?

A. Well, it would help me, but I haven't looked at the details associated with your question. So generally speaking, I really can't answer it.

But I will say that, you know, things like if the window might have been broken or if a door is open but the door in the room next door that sort of would provide air to the fire room is closed, then maybe that door doesn't -- so there are many -- I think that there are many questions. It's a complicated question, and it's not something I can answer right now.

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Q. So if I understand, there are many issues you would have to look at to be able to tell me or the court or the jury whether the presence of other items in her room had any effect on the intensity of the fire in the mattress, and that's not something you can tell me today.

A. Right.

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Q. What about the presence of medicinal oxygen in the room? If someone was, either in that room or the room next door, on oxygen, would that have - or can that have any effect on the intensity of the fire in the mattress?

A. If you make oxygen, pure oxygen, of which there is only about 21 percent in air, available to a fire directly, that certainly can increase the rate at which something is burning. The ability for this to have any effect on a fire really depends on, you know, what is the flow rate, what is the ability for the oxygen to reach the area that is burning, is it getting diluted significantly by air so that the concentration of oxygen near the fire is really no different, things of that nature.

So yes, it's something that can have an effect, but it's also something that may not have an 24 effect at times.

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Q. And you don't have enough information, as you sit here today, to be able to tell me or the court whether there was the presence of pure oxygen and whether it would have had any effect at all?

A. That's correct.

Q. And, of course, the tests that you did at Inter-Tek didn't have any other combustibles in the fire compartment. It had just the mattress and the frame upon which the mattress was resting.

A. Correct, and the burner. The burner that provided gas that burned.

11 O. Where did you obtain the six mattresses that 12 Exponent has, including the four that were actually 13 14 burned?

A. So these were manufactured by -- these were 15 Medline mattresses that came from Medline and 16 Creative Bedding. These were manufactured and then 17 sent directly to Inter-Tek, and the arrangements 18 were made by Brian Eldridge's office for that to 19 20 happen.

Q. Do you know whether or not the four 21 mattresses that you burned at Inter-Tek were 22 actually manufactured by Creative Bedding? 23

A. I don't specifically know exactly where they were manufactured other than what's on the labels

Page 50 that are documented and essentially representations that can be made by others that were involved in 2

> 3 that process. I was not.

Q. Did you specifically request that the 4 mattresses be manufactured by Creative Bedding? 5

A. Well, what I requested was that we have representative exemplars of innersprung mattresses.

Q. Did you request that of Mr. Eldridge?

A. Yes.

Q. So you cannot tell me if the mattresses you burned at Inter-Tek were manufactured by Creative Bedding unless it's revealed on the tags that you documented?

A. Well, I believe that they were manufactured by Creative Bedding, but I'd say -- that representation was made to me by Brian Eldridge, but I did not independently confirm that in any way.

Q. Do you know whether or not the mattresses that you tested at Inter-Tek were specifically manufactured for your test, or were they taken off a 20 run of normally manufactured mattresses?

A. I believe that they were manufactured for our purposes.

Q. What work did you do to confirm that the mattresses you tested at Inter-Tek met the same

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specifications as the mattresses which were .1 2 delivered to National Healthcare?

3 A. I did not, let's say, perform any independent verification of that. I requested that

the innersprung mattresses be representative of the 5 ones that were delivered to NHC Nashville, and I 6

think that the -- well, the exercise of ensuring 7

that that was the case was overseen by Brian 8

Eldridge and other people at -- probably at Creative 9 10 Bedding.

Q. Was there anyone at Exponent, other than you, that would have played a role in confirming that the mattresses you tested at Inter-Tek met the same specifications of the mattresses delivered to NHC?

A. No.

Q. Okay. So your statement in your -- well, I'm not actually sure you even said that in your affidavit, but any statement that you would make that the mattresses you tested at Inter-Tek met the same specifications of the mattresses that were delivered to NHC were based upon information given to you by Mr. Eldridge? 22

23 A. Yes.

Q. Okay. 24

A. And let me just be clear. With respect to

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the innersprung mattresses, right. Because there were foam mattresses and innersprung mattresses.

Q. Were you ever -- let me back up.

Do you know who, if anyone, at Creative Bedding would have played a role in trying to make sure that the mattresses you tested met the same specifications as the ones delivered to NHC?

A. I don't know specifically.

Q. Were you ever given any specifications or any documents that showed you the characteristics of the mattresses delivered to NHC?

Do you want me to try that again? Is

A. Well, the only information I have associated with that is Hollman's testimony.

Q. So you've not been given any internal specifications that Medline or Creative Bedding might have used back in the 1990s on how they constructed mattresses then?

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Q. Have you been given any specifications on 21 how Medline has their mattresses manufactured in 22 23 2007?

A. No.

O. Did you read any other depositions other

performed at Inter-Tek.

Q. Do you know, from looking at those photographs or from your recollection, whether those were taken after the mattress that contained those 5 units had been burned?

A. Oh, clearly that is the case, that these photographs were taken after the mattresses or, in fact, in this case the one mattress was burned.

Q. Okay.

A. These two exhibits, 166A and 167A, come from 10 11 the same mattress.

Q. How can you tell that?

A. Just from the appearance of the debris. You can see the debris is the same.

Q. Did you take pictures of the remaining innerspring array from both innerspring mattresses you burned?

A. Yes.

19 Q. Did they appear identical? And you're 20 welcome to look at your pictures.

A. Sure. I'm not sure I understand your question. Did they appear -- that is, did the innersprings from the two mattresses appear identical, or did the multiple photographs of the other mattress innersprings appear identical to one

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than Mr. Hollman's deposition taken in 2007?

A. No.

Q. Do you know whether or not Creative Bedding still makes mattresses for Medline?

A. I don't know.

Q. Have you ever spoken with anyone directly at Medline, as opposed to one of their attorneys, about the mattresses you were given?

A. No.

Q. I sort of asked this, but I'm not sure I asked the right question. Did you ever speak to anyone at Creative Bedding, as opposed to one of their attorneys, about the mattresses you needed and what you were given?

A. No.

(Documents marked as Kytomaa Exhibits 166A and 167A for identification)

Q. Doctor, I've handed you Exhibits 166A and 167A, which were photographs given to me by Mr. Eldridge or Mr. Singer. Do you recognize those photographs?

A. I do.

Q. Can you tell me what those are?

A. These are photographs that I took of the 25 innerspring array from the burn test that we

1 another?

> Q. The two sets of photos from the two units, did they appear to be identical?

A. I have photographs right here. These are the others.

So essentially what you put in front of me was Exhibits 166 and 167, which were photographs that you printed out from my CD or DVD. And here you can see additional photographs of the innerspring array here being held up by one of the technicians at Inter-Tek, and here you can see with a degree that differs in appearance from Exhibits 166 and 167A.

But generally speaking, the innerspring arrays look the same.

16 O. Do you mind if I mark those so that when we 17 look at this later we'll remember what you were 18 talking about?

A. By all means.

19 20 MR. SINGER: We can take photocopies of 21 that, too. Would that be better?

MS. LISER: That would be fine.

23 MR. SINGER: There are people here who 24 can help us with that. Were there any others that you wanted to have photocopied?

15 (Pages 54 to 57)

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